

# DTCM120-80H-AL

## C-mount Bi-telecentric Lens

- Optimized for 1/2.5"~1.1" C-Mount cameras;
- Largest FOV from 26mm upto 300mm;
- Excellent resolution for high pixel cameras;
- Low distortion, good telecentricity, big aperture and big depth of field for high end application.



Optical Specifications	
Magnification (x)	0.100
Object Field of View (Φmm)	80
Working Distance (mm)	228±4
Max Sensor Size (Φmm)	8.0(1/2")
Best Aperture (F/#)	4.2
Telecentricity typical (max) (deg)	<0.1
Distortion typical (max) (%)	<0.1
MTF30 (lp/mm)	>210
Depth of Field (mm)	±44@F11
Length of I/O (mm)	417±4

Field of View (mm × mm)	
1/2.5" 9P001/31 (5.7x4.28)	57.0x42.8
1/2.3" 9J003 (6.44x4.62)	64.4x46.2
Mechanical Specifications	
Mount	C
Length (mm)	171.2
Weight (kg)	1.8
Compatible Lighting	
Telecentric LED Lighting	DTCL-80H-xW-y
	Beam Diameter 80mm

### Notes:

1. Depth of Field is calculated value, this value could be used for imaging test, but to get sharp image in application, half of calculated value is suggested.
2. Length of I/O = WD + Length + Back Focal Length.

